7400105

No.

HEE UNIVERD SHAVES OF ANDERIOR

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Minnesota Agricultural Experiment Station

Colherens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO- IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND ${
m WHEREAS}$, upon due examination made, the said applicant(s) is (are) adjudged TO BE ENTITLED TO A CERTIFICATE-OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT variety therefrom, to the extent provided by the PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS ASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS ED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Evans'

In Lestimony Takexeot, I have hereunto set my hand and caused the seal of the Elaut Variety Protection Office to be affixed at the City of Washington 18th day of April the year of our Lord one thousand nine hundred and seventy-five

Earl & But

. Detest: Plant Variety Protection

Agricultural Marketing Service

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

1. VARIETY NAME OR TEMPORARY	12. KIND NAME		EOR OFFIC	IAL USE ONLY
DESIGNATION				
Evans	Soybean		740C	7105
3. GENUS AND SPECIES NAME	4. FAMILY NAME (Botanical)		6. 27.74	TIME / . 3 A.M.
01	Leguminosae	Leguminosae		/. 30 P.M.
Glycine max				BALANCE DUE
	Í		\$ 2577.00	- s
	December 27	, 1973	\$250.00	- S
6. NAME OF APPLICANT(S)	7. ADDRESS (Street a	7. ADDRESS (Street and No. or R.F.D. No., Ci		8. TELEPHONE AREA
Minnesota Agricultural	Code) Institute of Agricultur		ire	CODE AND NUMBER
Experiment Station		ty of Minnesot	612/373-0867	
.,			55101	
9. IF THE NAMED APPLICANT IS NOT A P		10. STATE OF INCO	RPORATION	11. DATE OF INCOR-
ORGANIZATION: (Corporation, partnershi	p, association, etc.)			PORATION
State experiment station				
12. Name and mailing address of appl	icant representative(s	s), if any, to serve	in this application a	and receive all papers:
1 11 1			·	
J. W. Lambert	d Dlamt Comption			
Department of Agronomy an	id Plant Genetics			
Institute of Agriculture University of Minnesota				
St. Paul, Minnesota 551	01			
13. CHECK BOX BELOW FOR EACH ATTAC			·· -	
χ 13A. Exhibit A, Origin and Br	eeding History of the	Variety (See Secti	ion 52 of the Plant V	ariety Protection Act.)
^				
X 13B. Exhibit B, Botanical Des	scription of the Varie	ty		
ф	1.1 f.1 32 1.		•	•
13C. Exhibit C, Objective Des	scription of the Variet	У		
X 13D. Exhibit D, Data Indication	ve of Novelty (See	Exhibit C)		
X 13E. Exhibit E, Statement of t	the Basis of Applican	r's Ownership		
14A. Does the applicant(s) specify th (See Section 83(a), (If "Yes," a		elow.)	XYES NO	
14B. Does the applicant(s) specify th				erations of production
limited as to number of generati	ons?	beyond bree		D ⊠ CERTIFIED
		<u> </u>		
The applicant declares that a viable				
ance of a certificate and will be rep				
The undersigned applicant(s) of th				
uniform, and stable as required in Plant Variety Protection Act.	Section 41 and 15 ent	illea to protection	under the provisions	of Section 42 of the
·			e ata e a 1 e e Taite e	
Applicant is informed that false re	presentation herein ca	in jeopardize prote	ection and result in p	enaities.
				^
(DATE)		" O	SIGNATURE OF APPLIC	AN I)
		()4	/kmc0/	
(DATE)			ggNaTURE OF APPLIC linnesota Agricu tation	
VOATE/			SIGNATURE DE APPLIC	ANT)

INSTRUCTIONS

CENERAL Send are of ginal copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Believest Road, Hyattsville, Maryland 20782. (See Section 186 175 of the regulations and rules of practice.) Retain one copy for files (All teems on the face of the form are self-explanatory unless noted below.

- Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

Exhibit A

ORIGIN AND BREEDING HISTORY EVANS SOYBEANS

Evans traces to an \mathbf{F}_4 plant selected in the progeny of an \mathbf{F}_3 plant from a cross of Merit and Harosoy. Seeds from the plants of the \mathbf{F}_5 row were bulked for use in yield trials in \mathbf{F}_6 . The strain was tested in Minnesota for three years and regionally two years before a small purified increase was produced. This purified lot tracing to 30 plants was the basis for the present foundation seed. Evans has been yield-tested in Minnesota for eight years and regionally for five. It was released to registered and/or certified seed growers in Minnesota and two other states on April 1, 1974.



EXHIBIT B

Botanical Description of Evans Soybeans

'Evans' is an indeterminate Group O variety of soybeans (Glycine max, L., Merr.). The plants are tall for their relative maturity with 14 to 18 nodes on the main stem, and they develop a narrow canopy. The leaves are dark, bluish green at full canopy with well defined lighter green veins. The seventh, eighth, and ninth trifoliolate leaves are commonly largest. Petioles of these leaves are usually 8 or 9 inches long and the oval leaflets are 2.5 to 4.0 inches wide. Leaflets on the upper leaves are markedly smaller and the petioles are shorter. Some branching at the lower nodes normally occurs. Both the branches and the leaf petioles are attached at a narrow angle with the main stem, giving the plant a tall, narrow, upright appearance. The flowers are medium sized and white. Commonly there are two sessile flowers and one short raceme with two to five flowers at each node. The pubescence is gray. At full maturity the stems have light brown pigmentation. Coupled with the gray pubescence this produces a "light gray" appearance at harvest time. Seed coats and hila are yellow.

0 BLIGHT

WILDFIRE

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse. SOYBEAN (GLYCINE MAX)	RIETY
Minnesota Agricultural Experiment Station ADDRESS (Street and No., or R. F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY
Institute of Agriculture	7400105
University of Minnesota St. D. J	VARIETY NAME OR TEMPORARY DESIGNATION
University of Minnesota, St. Paul, Minnesota 5510 Place the appropriate number that describes the varietal character of this value. 1. SEED SHAPE.	1 EVANS
1. SEED SHAPE,	ariety in the boxes below.
1 = SPHERICAL 2 = SPHERICAL 3 = ELONGATE 4 = OTH	IER (Specify)
1 a war a sur	· ISHADE:
5 = OTHER (Specify) 3 = BROWN 4 = BLACK	1 = LIGHT 2 = MEDIUM 3 = DARK
3. SEED COAT LUSTER: 4. SEED SIZE	1 = LIGHT 2 = MEDIUM 3 = DARK
1 = OULL 2 = SHINY	PER 100 SEEDS
5. HILUM COLOR.	
2 1=BUFF 2=YELLOW 3=BROWN 4=GRAY 5=IMPERFEC	SHADE
6 = BLACK 7 = OTHER (Specify)	
6. COTYLEDON COLOR: 7. LEAFLET SIZ	<u> </u>
11 1 YELLOW 2 GREEN	· ·
8. LEAFLET SHAPE:	LL 2 = MEDIUM 3 = LARGE
1 = OVATE 2 = OBLONG 3 = LANCEOLATE 4 = ELLIPTICAL	5 = OTHER (Specify)
9. LEAF COLOR (See reverse):	
2 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN	10. FLOWER COLOR:
11. POD COLOR	1 = WHITE 2 = PURPLE 3 = OTHER (Specify)
12: POD SET:	
2 TETAN 2 = BROWN 3 = BLACK TETAL 1 = SCAT	TERED 2 = CONCENTRATED
	SHADE
1 = GRAY 2 = BROWN 3 = OTHER (Specify)	1 = LIGHT 2 = MEDIUM 3 - DADS
14. PLANT TYPES (See Reverse): 15. PLANT HABIT	_ 112 ARK
1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE	MINATE 2 = INDETERMINATE
16. HYPOCOTYL COLOR: LZ 3 = OTHER 17. SEED PROTEII	(Specify)
TEGREEN 2 = PURPLE	2 = B
16. NUMBER OF DAYS TO ELOWERING	
days are 9 or less.)	1 4 = 11 5 * 111
20. SIZE OF 10 DAY OLD SEEDLING CROWN LINDER CONSTRUCTION	VI . 9 ≃ VII 10 = VIII
28. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) A (e.g. [0 2]) when size is 9 mm. or less.)	T 25° C. (Place a zero in first box
OF SEEDLING JONG MM. LENGTH	MM. WIDTH
DISEASE: (Enter 0 : Not Tested; 1 Susceptible; 2 - Resistant)	OF COTYLEDON
BACTERIAL O SOYBEAN O DOWNY PURPLE STAIN	POD AND ROOT
FROGEYE O STEM O PHYTO	STEM BLIGHT LO KNOT
CANKER 2 PHTHORA 1 BROWN STEM ROT 0	TARGET BROWN SPOT

RMIZOCTONIA OTHER (Specify)

REVISED RES

Data Indicative of Novelty in Evans Soybeans

. . . .

'Evans' is most similar to 'Merit'. However, 'Evans' yields 10-15% higher and has 8% larger seeds than 'Merit'. Seeds of 'Evans' have yellow hila; seeds of 'Merit' have buff hila.

Exhibit E

The Minnesota Agricultural Experiment Station is the employer of the breeder, Dr. J. W. Lambert, and reserves all rights afforded by protection of the Evans variety.

7400105

	INCUSTRALL

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Merit	Petiole angle	Merit
Leaf shape	Merit	Seed size	<u>Swift</u>
Leaf color	Merit	Seed shape	<u>Harosoy</u>
Leef surface	Merit	Seedling pigmentation	Merit

NO. OF DAYS	LODGING	PLANT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER	IODINE NO.	
VARIETY			HEIGHT	Width	Length	Protein	Oil	PLANT	1001112
Submitted	126	2.0	34			39.4	21.6 %		<u></u>
lame of similar variety Merit	127	2.0	34			40.1	21.3		

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

- 1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
- 2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
- 3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	''Ada''
Medium Green	"Vilkin"
Dark Green	''Swift''

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	''Amsoy''
Medium	''Bonus''
Large	''Anoka''

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	''Vansoy''
Intermediate	"Wirch"
Bachy	"Adelphia"